The BFA Fuse Status Indicator shows normal or open fuse and also reports connection integrity. With a nominal 3-phase line voltage applied, the BFA Fuse Status Indicator flashes a normal LED green light that gives positive indication of a good fuse and integrity of the wire connection to each side of the fuse. The indicator flashes a red fault LED when a fuse is unconnected or open, if there is a lost connection to either side of the fuse, and if mismatched line and load wires are present. When phase loss occurs both fault and normal LED’s will extinguish. The indicator will continue to indicate the status of the fuse during a phase loss if a regenerated voltage is produced on the open phase from a rotating motor. The BFA Fuse Status Indicator mounts externally to a panel and can be mounted vertically or horizontally. It can be used for all UL Fuses Class H, J, K, R, RK. It can be viewed from a distance and has a universal input of 208-600 VAC.

1. Follow all Local, State, and National Electrical Codes when installing this equipment.
2. A 7/8” hole or 1/2” conduit knockout will have to be located on a visible surface of the panel being monitored. When mounting on a hinged door, place the hole location as close to the panel hinge as possible. This will reduce the amount of cable slack required to properly open and close the panel door. See Figure 1.
3. Remove the mounting hardware and insert the wiring harness and the threaded nipple through the hole. Secure the unit in place by reinstalling the locknut. Do not over torque.
4. Refer to Figure 3 for proper wiring connections. Figure 2 represents the preferred method of termination.

NOTE: Matched color pairs must be kept linear from line to load side of the fuse(s). Solid color to line side, white striped to load side.
5. TURN POWER ON. All three (3) green LEDs should flash independently at a rate of 2 flashes/sec. indicating a normal operating condition.
6. If all three (3) green LEDs do not flash, TURN POWER OFF and check wiring connections. If wiring is correct, refer to troubleshooting guide (on back side) to determine the existing failure status.

SPECIFICATIONS
Nominal Voltage: 208-600 VAC ±10 %, Phase-to-Phase, 50/60 Hz.
Max Continuous Voltage: 660 VAC, Phase-to-Phase.
Rev. Connection Protected: Yes.
Detection Threshold: 10-15 VAC Across Open Fuse.
Maximum Detector Leakage Current: 0.5 ma @ 600 VAC (Approx).
Indicators: Normal- (3) Green LEDs, 2 Flashes/Sec, Fault- (3) Red LEDs, 2 Flashes/Sec.
Maximum Rated Voltage: 750 VAC/1000 VDC (LINE-TO-LINE or LINE-TO-GND).
Detection Thresholds: 29 VAC 3-Phase, 40 VAC SINGLE-phase, 27 VDC (TYP CUTOFF).
Power Required: 2.5 VA @ 208 VAC and 5.5 VA @ 480 VAC.
Temperature Ratings: Operate: 32 to 131°F (0 to 55°C), Storage: -40 to 185°F (-40 to 85°C).
Enclosure: 94 V-0 Flame Retardant Black ABS Plastic, Panel Mount with 1/2" Plastic, Electrical Conduit Adaptor; Encapsulated for Environmental Protection.
Electrical Connections: (6) 2’, 18 AWG, 600V, 105°C PVC Stranded Wire w/Wire Pin. Terminations, Jacketed with 18” Silt Nylon Corugated Tubing, .556” OD.
Weight: NET: 3.52 oz (99.8 g) SHIPPING: 5.12 oz (145.1 g).
Agency Approvals: UL

Figure 1
Figure 2
Figure 3
1. A. Normal, fuse good, electrical contact across fuse.

2. A. Unconnected or blown fuse.
   B. Bad Connection Load Side (white stripe wire).
   C. Both of the above.

3. A. Phase voltage loss with no motor regeneration.
   B. The above accompanied with an unconnected or blown fuse.

4. A. Bad Connection Line Side (solid color wire).
   B. The above accompanied with an unconnected or blown fuse.
   C. Phase Voltage loss with motor regeneration accompanied with an unconnected or blown fuse.

5. A. (2) Unconnected or blown fuses.
   B. Corresponding wires interchanged between solid colors or white strip colors.
   C. 1 or 2 unconnected or blown fuses and B.

6. A. (3) Unconnected or blown fuses.
   B. Line Side connections do not correspond to Load Side connections.
   C. 1 or more unconnected or blown fuses and B.

MAINTENANCE
Upon final installation of the Model BFA Fust Status Indicator, no routine maintenance is required. The Model BFA is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.